

3. The membranous envelope which is concealed by the epigonium and which had not hitherto been observed, represents an embryo-sac.

4. The internal body, which afterwards becomes the seta and urn, is a true embryo.

5. In the Mosses, the embryo, instead of detaching itself from the parent plant to originate a new plant, is developed in its place and gives rise to a capsule filled with spores.

6. The organs called *antheridia* are true male organs, inclosing a fecundating matter.

7. This fecundating matter is introduced by the tubular neck of the epigonium.—*Comptes Rendus*, xxxv. 137.

METEOROLOGICAL OBSERVATIONS FOR AUG. 1852.

*Chiswick*.—August 1. Very fine: uniformly overcast. 2. Very fine: densely clouded. 3. Partially overcast: slight shower. 4. Fine: clear. 5. Fine: slightly overcast. 6. Showers: heavy rain. 7. Cloudy: clear. 8. Fine: clear. 9, 10. Very fine. 11. Constant heavy rain. 12. Heavy rain: cloudy. 13. Very fine: clear. 14. Very fine: heavy rain at night. 15. Foggy: clear at night. 16. Heavy dew: fine: overcast. 17. Densely overcast: frequent vivid lightning and distant thunder: chiefly sheet lightning till 11 P.M., then forked lightning, with heavy thunder and rain in torrents. 18. Very fine: cloudy, with lightning at night. 19. Very fine: clear at night. 20. Overcast. 21. Light clouds: uniformly overcast. 22. Overcast: clear. 23. Cloudy and fine. 24. Overcast and mild: rain at night. 25. Cloudy and fine. 26. Slight haze: very fine: clear. 27. Very fine. 28. Foggy: remarkably dusky and dark about 9 A.M.: very fine. 29. Very fine: densely overcast: light clouds. 30. Cloudy: very fine: clear. 31. Clear: very fine.

Mean temperature of the month .....	63°·67
Mean temperature of Aug. 1851 .....	62·79
Mean temperature of Aug. for the last twenty-six years ...	62·12
Average amount of rain in Aug. ....	2·44 inches.

*Boston*.—Aug. 1. Cloudy. 2. Fine. 3. Cloudy: rain P.M. 4. Fine. 5. Fine: rain P.M.: thunder and lightning. 6. Fine: rain P.M. 7, 8. Cloudy: rain P.M.: thunder and lightning. 9. Cloudy: rain P.M. 10. Fine: rain P.M.: thunder and lightning. 11. Rain: rain A.M. and P.M. 12. Cloudy: rain A.M. and P.M.: thunder and lightning. 13. Fine. 14. Fine: rain and hail P.M.: thunder and lightning. 15. Cloudy: rain A.M. 16. Fine. 17. Fine: rain P.M.: thunder and lightning. 18. Cloudy: rain early A.M. 19. Cloudy. 20. Cloudy: rain early A.M. 21—23. Cloudy. 24. Cloudy: rain A.M. and P.M. 25. Cloudy: rain A.M. 26, 27. Fine. 28. Cloudy: rain P.M. 29, 30. Fine. 31. Fine: rain and hail P.M.: thunder and lightning.

*Sandwich Manse, Orkney*.—Aug. 1, 2. Cloudy. 3. Cloudy: rain. 4. Bright: clear: fine. 5. Clear: fine: aurora. 6. Clear: fine. 7. Drops: clear: fine. 8. Bright: clear: fine. 9. Clear: fine. 10. Bright: fine: clear: fine: aurora. 11. Bright: fine: clear: fine. 12, 13. Bright: fine: cloudy: fine. 14. Bright: fine: clear: fine. 15. Clear: fine. 16. Cloudy: drops. 17. Fog: cloudy. 18. Drizzle: showers: clear. 19. Drizzle: bright: fine. 20. Showers: bright: fine. 21. Clear: fine: fog. 22. Fog: fine: fog. 23. Bright: fine: cloudy: fine: aurora. 24. Cloudy: fine: clear: fine. 25. Clear: fine: aurora. 26. Clear: fine: cloudy: fine. 27. Cloudy: fine. 28. Bright: fine: cloudy: fine. 29. Damp: clear: fine. 30, 31. Bright: fine: clear: fine.—This month has been very fine, warm and dry.

Mean temperature of Aug. for twenty-five years .....	54·75
Mean temperature of this month .....	60°·64
Average quantity of rain in Aug. for six years .....	3·05 inches.